

## 5.3 Writing Linear Equations Given 2 Points

### DAY 1

How do you write the equation of a line if you only are given 2 points on the line?

- ① find  $m$
- ② pick an ordered pair
- ③ Sub  $x, y, m$  into  $y = mx + b$
- ④ Solve for  $b$
- ⑤ Sub  $m$  &  $b$  into  $y = mx + b$

**Write the equation a line that goes through the following points:**

1. (-3, 1) & (5, 5)

2. (-1, 1) & (4, 5)

3. (5, 7) & (5, -3)

4. (2, 8) & (5, 8)

$$m = \frac{1}{2}$$

$$y = m \underline{x} + b$$

$\frac{1}{2}$

Write the equation for the line:

$(3, 2)$   
 $(-2, -1)$

$$\frac{y_2 - y_1}{x_2 - x_1}$$

$m$

$b$

**WORK TIME in PARTNERS:**

5.3 DAY 1 WKSH and

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**TICKET OUT THE DOOR**  
**COMPLETE INDEPENDENTLY**